## What is claimed is:

- 1. A transmission power control apparatus
- 2 comprising:
- 3 extraction means for extracting a transmission
- 4 power control signal from a reception signal containing
- 5 a transmission power control signal;
- 6 storage means for sequentially storing
- 7 transmission power control signals output from said
- 8 extraction means;
- 9 first determination means for determining
- 10 whether an instruction to increase/decrease transmission
- 11 power based on a plurality of transmission power control
- 12 signals stored in said storage means is repeatedly
- 13 generated; and
- 14 update stopping means for stopping
- 15 transmission power updating operation if the
- 16 determination result from said first determination means
- 17 indicates that the transmission power is repeatedly
- 18 increased/decreased.
  - 2. An apparatus according to claim 1, wherein
  - 2 said extraction means, storage means, first
  - 3 determination means, and update stopping means are
  - 4 arranged in a CDMA (Code Division Multiple Access)
  - 5 mobile terminal.

- 3. An apparatus according to claim 1, wherein
- 2 said apparatus further comprises second
- 3 determination means for determining whether a deviation
- 4 of a frequency of a reception wave due to the Doppler
- 5 effect is not more than a predetermined value, if the
- 6 determination result from said first determination means
- 7 indicates that the transmission power is repeatedly
- 8 increased/decreased, and
- 9 said update stopping means stops transmission
- 10 power updating operation if the determination result
- 11 from said second determination means indicates that the
- 12 deviation is not more than the predetermined value.
  - 4. An apparatus according to claim 3, wherein
- 2 said extraction means, storage means, first and second
- 3 determination means, and update stopping means are
- 4 arranged in a CDMA (Code Division Multiple Access)
- 5 mobile terminal.
  - 5. An apparatus according to claim 3, further
- 2 comprising Doppler effect measuring means for comparing
- 3 a slot period of a reception signal with a reference
- 4 slot period to measure a slot period deviation of a
- 5 reception wave due to the Doppler effect which is
- 6 produced upon movement of the terminal.
  - 6. An apparatus according to claim 1, wherein

- 2 said first determination means determines
- 3 whether a predetermined frequency component of frequency
- 4 components obtained by Fourier-transforming a plurality
- 5 of transmission power control signals stored in said
- 6 storage means is not more than a predetermined value,
- 7 and
- 8 said update stopping means stops transmission
- 9 power updating operation if the determination result
- 10 from said first determination means indicates that the
- 11 predetermined frequency component is not more than the
- 12 predetermined value.
  - 7. A transmission power control method comprising
- 2 the steps of:
- 4 from a reception signal containing a transmission power
- 5 control signal;
- 6 sequentially storing extracted transmission
- 7 power control signals;
- 8 determining whether an instruction to
- 9 increase/decrease transmission power based on a
- 10 plurality of stored transmission power control signals
- 11 is repeatedly generated; and
- 12 stopping transmission power updating operation
- 13 if the transmission power is repeatedly
- 14 increased/decreased.

- 8. A method according to claim 7, wherein
- 2 the method further comprises the step of
- 3 determining whether a deviation of a frequency of a
- 4 reception wave due to the Doppler effect is not more
- 5 than a predetermined value, if the transmission power is
- 6 repeatedly increased/decreased, and
- 7 the step of stopping comprises the step of
- 8 stopping transmission power updating operation if the
- 9 deviation is not more than the predetermined value.
  - 9. A method according to claim 8, further
- 2 comprising the step of comparing a slot period of a
- 3 reception signal with a reference slot period to measure
- 4 a slot period deviation of a reception wave due to the
- 5 Doppler effect which is produced upon movement of the
- 6 terminal.
  - 10. A method according to claim 7, wherein
- 2 the step of determining comprises the step of
- 3 determining whether a predetermined frequency component
- 4 of frequency components obtained by Fourier-transforming
- 5 a plurality of stored transmission power control signals
- 6 is not more than a predetermined value, and
- 7 in the step of stopping, transmission power
- 8 updating operation is stopped if the predetermined
- 9 frequency component is not more than the predetermined
- 10 value.